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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/608,521	06/30/2000	Raju C. Bopardikar	C0012/7000	1111

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EXAMINER

MIRZA, ADNAN M

ART UNIT PAPER NUMBER

2145

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	09/608,521	BOPARDIKAR ET AL.	
	Examiner	Art Unit	
	Adnan M. Mirza	2145	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10/18/2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 and 44-54 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 and 44-54 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-11,44-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Lumelksy et al (U.S. 6,460,082) and further in view of Schaefer et al (6,157,927)..

As per claims 1,44 Lumelksy disclosed apparatus for providing high-performance, scaleable data processing and storage services to a client from a plurality of resources, comprising an access interface module which receives service requests and data from the client and in response to each service request and based on a workload instead of an address of each of the plurality of resources dynamically selects a subset of the plurality of resources to which the data is transferred in order to provide the requested service and distribute the workload across the plurality of resources (col. 4, lines 54-65 & col. 12, lines 46-67);

However Lumelksy fails to disclose a switch fabric for temporarily connecting the access interface module to the selected subset of the plurality of resources for providing the service to the client.

Art Unit: 2145

In the same field of endeavor Schaefer discloses, ““The resource manager has a first interface that receives XATMI service request from the component and a second interface that receives directives (e.g.; prepare, commit, abort etc.) issued by the first transaction manager for a given global transaction (col. 8, lines 25-29).

It would have been obvious to one having ordinary skill in the art at the time of the invention was made to have incorporated The resource manager has a first interface that receives XATMI service request from the component and a second interface that receives directives (e.g.; prepare, commit, abort etc.) issued by the first transaction manager for a given global transaction as taught by Schaefer in the method and system of Lumelksy to provide highly desirable resource management system and moving away from a single resource management system.

5. As per claims 2,45 Lumelksy-Schaefer disclosed wherein the access interface module selects the subset of the plurality of resources based on the relative demand placed on the subset of resources (Schaefer, col. 8, lines 42-54).

6. As per claims 3,46 Lumelksy-Schaefer disclosed wherein the switch fabric comprises a control switch fabric for transferring control information and a separate data switch fabric for transferring data (Lumelksy, col. 5, lines 5-18).

Art Unit: 2145

7. As per claims 4,47 Lumelksy-Schaefer disclosed wherein the control switch fabric is optimized for transferring control information and the data switch fabric is optimized for transferring data (Lumelksy, col. 5, lines 5-18).

8. As per claims 5,48 Lumelksy-Schaefer disclosed wherein the request for service includes control information and data and wherein the access interface module separates the control information and the data and transfers the data to the selected subset of resources over the data switch fabric (Lumelksy, col. 5, lines 31-43).

9. As per claims 6,49 Lumelksy-Schaefer disclosed wherein the data switch fabric comprises a none blocking crossbar switch for data transfer and the control switch fabric comprises an Ethernet switch for control information transfer (Schaefer, col. 28, lines 22-37).

10. As per claims 7,50 Lumelksy-Schaefer disclosed further comprising a resource module connected to the plurality of resources for generating pre-allocation information that pre-allocates services from the plurality of resources in order to evenly distribute a workload 4 across the plurality of resources (Lumelksy, col. 5, lines 5-29).

11. As per claims 8,51 Lumelksy-Schaefer disclosed wherein the switch fabric connects the access interface module to the resource module so that the resource module can transfer the pre-allocation information to the access interface module (Schaefer, col. 28, lines 22-37).

Art Unit: 2145

12. As per claims 9,52 Lumelksy-Schaefer disclosed wherein the access interface module selects a subset of the plurality of resources based on the pre-allocation information (Lumelksy, col. 5, lines 5-29).

13. As per claims 10,53 wherein the access interface module comprises a data memory which temporarily stores information transferred between the access interface module and the selected subset of the plurality of resources (Lumelksy, col. 10, lines 16-30).

14. As per claims 11,54 Lumelksy-Schaefer disclosed further comprising a plurality of access interface modules each access interface module receiving service requests from a plurality of clients (Schaefer, col. 28, lines 22-37).

Response to Arguments

15. Applicant's arguments filed 10/18/2006 have been fully considered but they are not persuasive. Response to applicant's arguments is as follows:

A. Applicant argued that Lumelsky and Schaefer did not disclose the recited access module that receives data from a client and selects resources to which the data is transferred based on the workload of the resource.

Art Unit: 2145

As to applicant's argument Lumelsky disclosed, "The administration of a meta-source is thus able to enhance the value such meta-source offers to remote authority by reconfiguration these resource pools to suit demands. Such administration may be based on some criteria such as the expected revenue, or some other cost metric (col. 12, lines 49-54).

Conclusion

16. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

17. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Adnan Mirza whose telephone number is (571)-272-3885.

Art Unit: 2145


18. The examiner can normally be reached on Monday to Friday during normal business hours. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Cardone can be reached on (571)-272-3933. The fax for this group is (703)-746-7239. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

19. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866)-217-9197 (toll-free).



Adnan Mirza

Examiner



PATRICE WINDER
PRIMARY EXAMINER